

Notice of Allowability

Application No.

10/776,344

Examiner

Chester T. Barry

Applicant(s)

ZHAO ET AL.

Art Unit

1724

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 11/14/05.
2. ☒ The allowed claim(s) is/are 2 and 4-20.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

CHESTER T. BARRY
PRIMARY EXAMINER

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Kien Le on or about 1/23/06.

The application has been amended as follows:

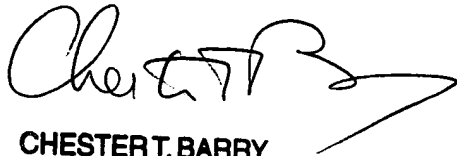
IN THE SPECIFICATION

The paragraph on page 4, beginning at line 34, which was amended in the paper filed 11/14/05, was amended further as follows:

The invention primarily includes aeration device 1 and reaction device. The differences between it and prior art are that an aeration zone 2 and a settle zone 3 are provided in the reaction device, the aeration device is located above the aeration zone, and a barrier 4 and a gap 5 are arranged between the aeration zone 2 and settle zone 3. In practice, the air intake 6 of the aeration device is installed in the middle of the wastewater inlet pipe 7. One end of the sleeve 11 is connected with exit of the wastewater inlet pipe; the other end is connected with one end of the diffluent implement 8, also known as current divider 8, of which other end is connected with one end of the sleeve 12. An uplift zone 9 is provided near the connection of the aeration zone and aeration device, a diversion area 10 is provided between the uplift zone and settle zone, a sludge concentration area 13 is provided between the aeration zone and the settle zone, a sludge outlet 15 is provided in the sludge concentration area, a outlet trough 14 is provided at one side of the settle zone, a gap 16 between sleeve 11 and sleeve 12, and current divider 8 equipped at the gap. The diffluent implement is approximately hollow and conical with an upward arc shape in its big end. The inlet pipe is consisted of a slanting pipe 17 and a straight pipe 18 between which there is an included angle in 15-45 degree. Sleeve 11, sleeve 12 and the diffluent implement between them are all vertical.

Examiner Comment:

It is clear from at least the flow arrows of Fig. 3 that diffluent implement 8 divides a portion of the current flowing downwardly through sleeve 11 through gap 16.

A handwritten signature in black ink, appearing to read "Chester T. Barry", with a long, sweeping horizontal stroke extending to the right.

CHESTER T. BARRY
PRIMARY EXAMINER

Chester T Barry

571-272-1152